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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/612,236	07/01/2003		Gary L. Brundage	pH-003	4966
27946	7590	05/05/2004		EXAM	INER
ARTHUR J			NGUYEN, PHUONGCHI T		
6601 KOLL CENTER PARKWAY SUITE 245 PLEASANTON, CA 94566				ART UNIT	PAPER NUMBER
				2833	

DATE MAILED: 05/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		//V
	Application No.	Applicant(s)
	10/612,236	BRUNDAGE, GARY L.
Office Action Summary	Examiner	Art Unit
	Phuongchi Nguyen	2833
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REITHE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply reply within the statutory minimum of thirty (3 riod will apply and will expire SIX (6) MONTH atute, cause the application to become ABAN	be timely filed 0) days will be considered timely. 5 from the mailing date of this communication. DONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on _		
2a) This action is FINAL . 2b) ⊠ T	his action is non-final.	•
3) Since this application is in condition for allow	wance except for formal matters	, prosecution as to the merits is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D. 1	1, 453 O.G. 213.
Disposition of Claims		
4) ⊠ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are without 5) ⊠ Claim(s) 14-20 is/are allowed. 6) ⊠ Claim(s) 1, 3-4, and 11-12 is/are rejected. 7) ⊠ Claim(s) 2,5-10 and 13 is/are objected to. 8) □ Claim(s) are subject to restriction and	drawn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Exam	niner.	
10)⊠ The drawing(s) filed on 01 July 2003 is/are:	a)⊠ accepted or b)☐ objected	to by the Examiner.
Applicant may not request that any objection to	the drawing(s) be held in abeyance	. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the cor		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in Apportiority documents have been re reau (PCT Rule 17.2(a)).	lication No ceived in this National Stage
Attachment(s) 1) X Notice of References Cited (PTO-892)	A Hachn A) ☐ Interview Sun	rents 122
 1) (X) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	Paper No(s)/N	fail Date
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date 		mal Patent Application (PTO-152)

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Zarreli (US5122064).

In regarding to claim 1, Zarreli discloses a connector system (Attachment 1 and 2 of figure 3 and 7) comprising a first wiring board (20) having first wiring-board surface (A) supporting a first plurality of conductors (30); and second wiring-board surface (B) extending in a first plane (of 20) and supporting a second plurality of conductors (36); wherein at least one of the first plurality of conductors (30) is electrically connected to a corresponding one of the second plurality of conductors (36); second wiring board (12) having a third wiring-board surface (C) extending in a second plane (of 12) substantially perpendicular to the first plane (of 20) and supporting a third plurality of conductors (14); an elastomeric conductor (106) (column 6, lines 38-39) disposed between the first and second wiring boards (20, 12) in contact with ones of the second (36) and third (14) pluralities of conductors; and a support (50) connected to the first and second wiring boards (20, 12) and holding the elastomeric conductor (106) against the second (B) and third wiring-board surfaces (C).

In regarding to claim 6, Zarreli discloses the connector system further comprising a housing (computer housing) encompassing the first and a second wiring boards (20 and 12).

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In regarding to claim 8, Zarreli discloses the connector system further comprising a second conductor (36) contacting the housing (indirectly) and at least one of the third plurality of conductors (14) (electrically).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zarreli (US5122064) in view of Krajewski et al (US5211565).

In regarding to claim 3, Zarreli discloses the invention, but lacks a third wiring board. However, Krajewaski et al teaches a third wiring board (another 12) having a fourth wiring-board surface (another upper surface of 12) extending in parallel with the second plane (of 12) and supporting a fourth plurality of conductors (another upper 82) (figures 2 and 3). It would have been obvious to one having ordinary skill at the time the invention was made to modify the connector of Zarreli by adding a third wiring board as taught by Krajewaski et al for expanding connector system.

5. Claims 4 and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zarreli (US5122064).

In regarding to claim 4, Zarreli discloses the invention, but lacks the first plurality of concentric conductors. It would have been obvious to one having ordinary skill at the time the invention was made to modify the first plurality of conductors of Zarreli to be concentric; since applicant has not disclosed that the first plurality of conductors solve any stated problem or is for

any particular purpose and it appears that the first plurality of concentric conductors would perform equally well with the first plurality of rectangular conductors.

In regarding to claim 9, Zarreli discloses the invention, but lacks the second conductor to be elastomeric. It would have been obvious to one having ordinary kill at the time the invention was made to modify the second conductor of Zarreli by making the second conductor to be elastomeric for increasing resilient conductive contact between the boards.

In regarding to claim 10, Zarreli discloses the connector system wherein the support (50) holds the second conductor (36) against the housing (computer housing) (indirectly).

In regarding to claim 11, Zarreli discloses the invention, but lacks at least one fastener attaching the support to the second wiring board. It would have been obvious to one having ordinary skill at the time the invention was made to duplicate the fastener (60) of Zarreli by attaching a different fastener between the support to the second wiring board for increasing the connection between the support and the second board.

In regarding to claim 12, Zarreli discloses the invention, but lacks a second elastomeric conductor. It would have been obvious to one having ordinary skill at the time the invention was made to add a second elastomeric conductor of Zarreli disposed against the first plurality of conductors; since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

Allowable subject matter

- 6. Claims 14-20 are allowed.
- 7. Claims 2, 5, 7 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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8. The following is a statement of reasons for the indication of allowable subject matter:

In regarding to claim 2, the prior art fails to teach or suggest the connector system wherein the support clips to the first wiring board.

In regarding to claims 5 and 7, the prior art fails to teach or suggest the connector system wherein the first wiring board further includes recesses receiving the support/interior protrusion.

In regarding to claim 13, the prior art fails to teach or suggest the connector system comprising a retainer disposed against the first plurality conductors and supporting the second elastomeric conductor.

In regarding to claim 14, the prior art fails to teach or suggest a water monitoring system comprising a sensor assembly, a support connected to the first and second wiring boards and holding the elastomeric conductor against the second and third wiring-board surfaces arranged as claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchi Nguyen whose telephone number is (571) 272-2012. The examiner can normally be reached on 8:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2800 ext 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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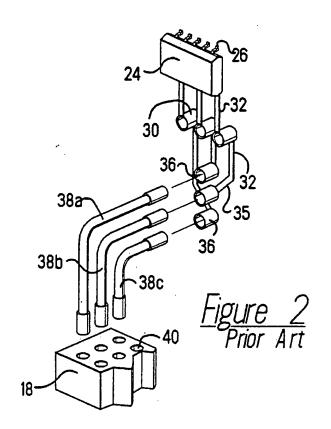
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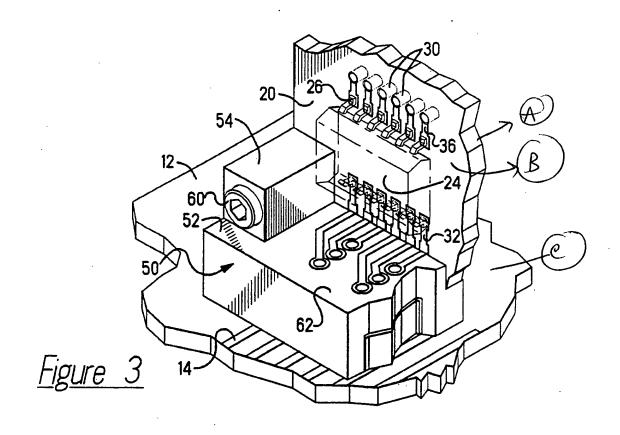
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PCN May 3, 2004

P. AUSTIN BRADLEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800





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